Apple IIGS: System Diagnostic Errors

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Revised:        11/10/88
Security:       Everyone


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Here's the currently available, though incomplete, list, with explanations,
of error codes generated by the Apple IIGS when running system diagnostics
for the Apple II Family (V1.0B1).

Apple IIGS error codes have the form AABBCCDD.


Test numbers AA


Error Code (AA)          Test
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"RM"/01                  Checksum
02                       RAM Moving Inversions
03                       Softswitch
04                       RAM Address
05                       FPI Speed
06                       Serial I/O
07                       Real Time Clock
08                       Battery RAM
09                       Front Desk Bus
0A                       Shadowing
0B                       Interrupts


AA=06  serial test
BB          Meaning
--          -----------
01          Register R/W
04          Tx Buffer empty status
05          Tx Buffer empty failure
06          All sent status fail
07          Rx char available
08          Bad data


AA=03  RAM test
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BBCC=   Address


AA=01   ROM Checksum
BB=     Failed checksum
DD=1    Bad RAM


AA=05   Speed
BB=1    speed stuck slow
BB=2    speed stuck fast


AA=08   Battery RAM
BB=01   address test failure and CC= bad address
BB=02   memory failure and CC = pattern, DD = Address


AA=02   Softswitches
Bb=     Statereg bit
CC=     Read softswitch address


AA=04   Front Desk Bus
BBCC=   Bad checksum found
DD=01   FDB toolcode encountered a fatal error and no checksum computed


AA=04   Ram Adddress
BB=     failed bank No
CC=     failed bit


AA=06   Clock Test
BBCCDD=not used
DD=01   a fatal error occcurred after the test to within a second


AA=0A   shadow register functionality


AA=0B Mega II and VGC capability of generating interrupts.
BB=01 VBL interrupt timeout
BB=02 VBL IRQ status fail
BB=03 1/4 SEC interrupt
BB=04 1/4 SEC interrupt
BB=05 ---
BB=06 VGC IRQ
BB=07 SCAN Line
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